

US Application No. 09/491,527

Atty Docket No. 10990629-1

Page 9

APPENDIXShowing All Amendments Presently Being Made

19. An apparatus for fabricating an array of features, comprising:
a drop deposition system to deposit multiple reagent droplets for each of multiple target feature locations so as to form the array of features;
an image capture system which provides a set of multiple images of a target feature location, each image of the set representing the target feature location following deposition of a corresponding sub-set of multiple droplets for that feature;
and
a processor which generates an overlay composite from the image set.
20. An apparatus according to claim 19 wherein the drop deposition system comprises a pulse-jet.
21. (AMENDED) An apparatus according to claim 19 wherein the processor generates an overlay composite generated by the processor from the image set which comprises a region of overlap of the droplet sub-sets.
22. (AMENDED) An apparatus according to claim 19 wherein the image capture system includes a processor which causes the capture system to provides multiple image sets of respective multiple target feature locations, each image set representing a corresponding target feature location and in which each image represents the location following deposition of a corresponding sub-set of multiple droplets for that feature.
23. (AMENDED) An apparatus according to claim 22 wherein the processor of the image capture system causes the capture system to provides each set from multiple captured images each of which simultaneously includes multiple target feature locations following a cycle of droplet depositions at those locations.

A

US Application No. 09/491,527

Atty Docket No. 10990629-1
Page 10

~~24. An apparatus according to claim 19 wherein the array is a polynucleotide array and the set of images includes, for multiple nucleotide reagent droplets for the feature, an image representing the target feature location following deposition of a corresponding one of the nucleotide monomer droplets.~~

25. (AMENDED) An apparatus according to claim 19 wherein the drop deposition system includes a processor which alters the deposition of additional droplets for the feature, or of droplets for other features on the same or another array, based at least in part on the overlay composite.

26. An apparatus according to claim 19 additionally comprising a storage medium and a communication module, wherein the processor stores the overlay composite on the storage medium and causes the communication module to communicate the stored overlay composite to a remote user of the array.

27. An apparatus for fabricating an array of features, comprising:
a drop deposition system to deposit multiple reagent droplets for each of multiple target feature locations so as to form the array of features;
an image capture system which provides a set of multiple images of a target feature location, each image of the set representing the target feature location following deposition of a corresponding sub-set of multiple droplets for that feature;
and
a storage medium onto which the image set or an overlay composite of them are stored.

28. An apparatus according to claim 27, additionally comprising a communication module to communicate the stored image set or an overlay composite to a remote user of the array.